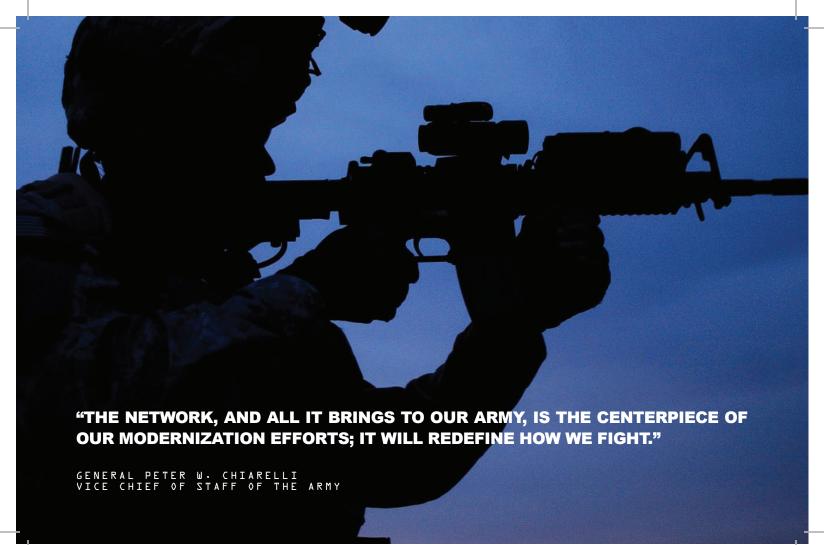


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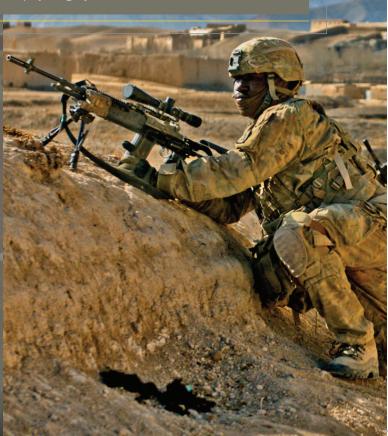
# -> PROVIDING THE NETWORK TO THE TACTICAL EDGE

The Army has developed a holistic network strategy that fundamentally changes how we acquire, test and deploy the Network. In the past, the Army fielded network systems independently and on their own acquisition timelines. The Army's new approach is to deploy network capabilities that are integrated from the Tactical Operations Center (TOC) to the Soldier, and are fielded in accordance with Army Force Generation (ARFORGEN) requirements.

## > WHAT ARMY FORCES NEED TO DO

# LEADERS, SOLDIERS, AND UNITS MUST EXHIBIT OPERATIONAL ADAPTABILITY:

- > Conduct combined arms maneuver, defeat the enemy in close combat, and seize and retain the initiative.
- > Conduct wide area security (includes population security).



#### > WHAT THE MOBILE NETWORK WILL ENABLE THEM TO DO



Access key information anytime, anyplace.

Share information to facilitate fire and maneuver, and survive in close combat.

Provide collaboration capability to aid in seizing and controlling key terrain.

Employ lethal and non-lethal capabilities, coupled with sensors, to effectively engage targets at extended range.

Distinguish among friend, enemy, neutral and noncombatant.

Integrate indirect fires.

#### > THE NETWORK

A 21st century expeditionary Army cannot succeed without a robust network. Operations, training, garrison, and headquarters activities rely on the Network, and the information and capabilities it stores, hosts and carries. The Network is also essential to operating with joint, coalition, interagency and mission partners.

The Army's portion of the Department of Defense (DoD) network, LandWarNet, will provide Soldiers, civilians, and mission partners information they need, when they need it and in any environment – from home station to the tactical edge. LandWarNet will be a completely integrated and interoperable network, from the highest to the lowest echelon.

The Army is pursuing critical initiatives to build an enterprise capability, including Enterprise Email, calendar-sharing and directory services, and ID and data center consolidation. Enterprise Network initiatives will increase warfighting effectiveness, improve network security, save hundreds of millions of dollars, and reduce infrastructure. Additionally, the Army is transforming business systems IT to better support our business operations and strategic decision making. The Army's enterprise concept requires a Common Operating Environment (COE), which is an approved set of technical standards to which all network applications and systems must adhere.

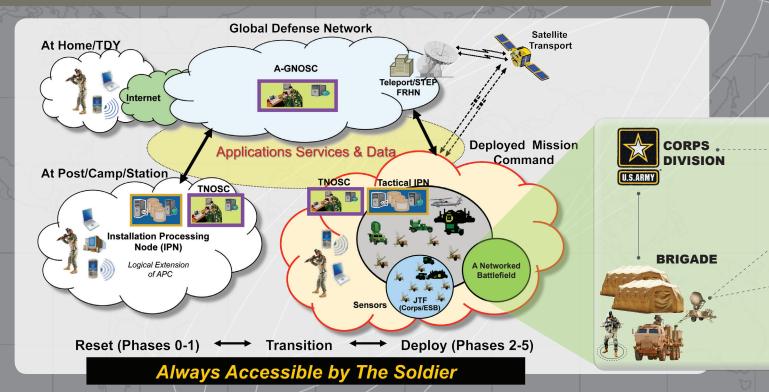


#### > THE TACTICAL NETWORK

The Army is changing the way it supplies network systems and capabilities to operational units by incrementally aligning the delivery of new technology with the ARFORGEN process. This effort will drive networking capabilities to the Small Unit and Soldier level — those that need these critical capabilities the most.

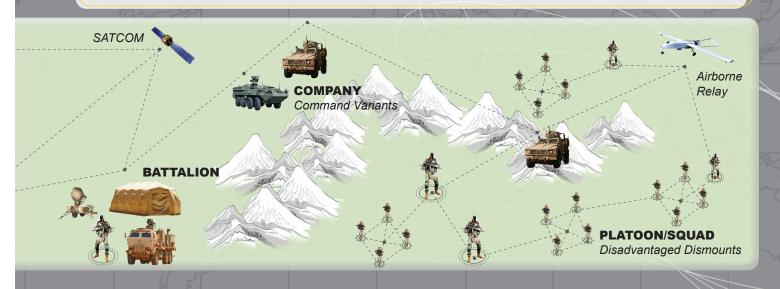
The Army has adopted acquisition practices to align the Network through Capability Sets that will enhance vertical and horizontal connectivity, and provide an integrated network baseline from the static TOC to the dismounted Soldier. The systems that will comprise the Capability Sets will be assessed through evaluation and test activities, and will be systematically integrated prior to being fielded to deploying units. The FY13-14 Capability Set meets the following recently adopted network guiding principles: build network capability, enhance battle command/mission command, extend the Network to the edge, and implementation of the Common Operating Environment (COE) and nonproprietary waveforms.

## > SCENARIO: THE NETWORK - ENTERPRISE LEVEL ACTIVITIES

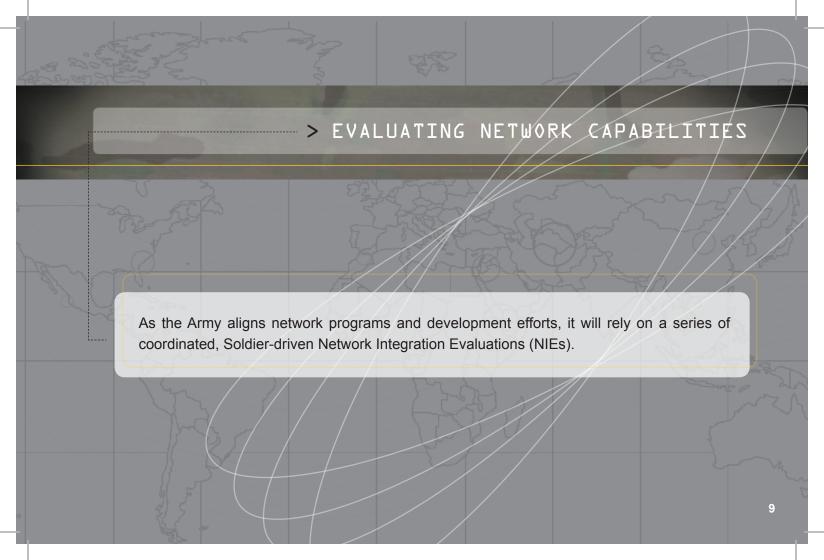




- Enterprise-Level Activities: the common services that span the Army Network, whether in garrison, en route or deployed, and the technical standards and directives that synchronize activities and ensure seamless information transfer across the Network. Enterprise-level activities serve as the bridge between the installation and deployed environments. Additionally, consolidation at the enterprise level makes the Network more efficient, effective and secure.
- Installation Infrastructure: consists of the hardware, applications, and services that support units and organizations at the installation level. The Army manages installation connectivity to the Global Information Grid (GIG) as an enterprise-level activity.
- <u>Deployed Mission Command:</u> consists of the Mission Command hardware, applications, and services that support units and organizations while deployed. The tactical level leverages Fixed Regional Hub Nodes for connectivity to enterprise-level services, systems, and applications.







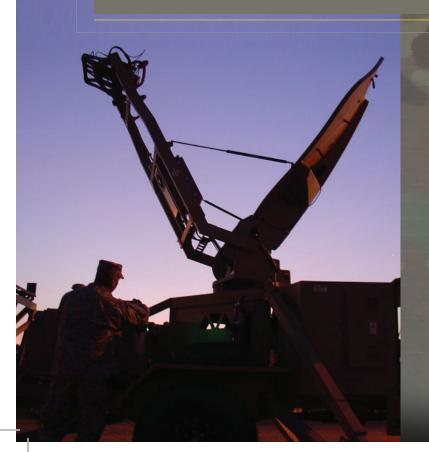
#### > NETWORK INTEGRATION EVALUATIONS

The Network Integration Evaluation (NIE) is part of a new, adaptive, and evolutionary approach to establish an integrated network baseline. The 2011 NIE is the first of a series of semi-annual events that will help validate emerging Capability Sets.

Integrated evaluations will provide a means to test and evaluate relevant network capabilities in parallel, and make incremental improvements based upon a disciplined and feedback cycle. These events, taking place at Fort Bliss, Texas, and White Sands Missile Range, New Mexico, under the oversight of the Army Test and Evaluation Command, are not discrete events, but part of the culmination of a process that will allow the Army to build the network and then fill it with the best applications and systems that the network can handle.



#### > A SOLDIER-DRIVEN EVALUATION PROCESS



This evaluation approach will allow the Army to field integrated network capability, and evaluate Programs of Record and developmental technology from industry more quickly and integrate them prior to fielding to units in combat. Getting emerging network capabilities into the hands of our Soldiers early and often provides the critical feedback needed to buy what we need, when we need it.

Soldier-driven tests and evaluations will begin in 2011 using the 2nd Brigade Combat Team, 1st Armored Division (2/1 AD). 2/1 AD trains to standard on core and specific tactical mission tasks, tests new concepts and equipment under realistic conditions, and provides detailed, candid Doctrine, Organization, Training, Materiel, Leadership and Education, Personnel and Facilities (DOTMLPF) feedback in order to enable effective acquisition decisions.



